John M Mcnamara

List of Publications by Year
in descending order

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86	6,780	94433 37	62596 80
papers	citations	h-index	g-index

87	87	87	5105
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	State-dependent life histories. Nature, 1996, 380, 215-221.	27.8	755
2	Starvation and Predation as Factors Limiting Population Size. Ecology, 1987, 68, 1515-1519.	3.2	465
3	Incorporating rules for responding into evolutionary games. Nature, 1999, 401, 368-371.	27.8	404
4	Dynamic models in behavioural and evolutionary ecology. Nature, 1988, 332, 29-34.	27.8	340
5	The application of statistical decision theory to animal behaviour. Journal of Theoretical Biology, 1980, 85, 673-690.	1.7	329
6	Integrating function and mechanism. Trends in Ecology and Evolution, 2009, 24, 670-675.	8.7	302
7	A framework for the functional analysis of behaviour. Behavioral and Brain Sciences, 1988, 11, 117-130.	0.7	263
8	The coevolution of choosiness and cooperation. Nature, 2008, 451, 189-192.	27.8	231
9	The evolution of decision rules in complex environments. Trends in Cognitive Sciences, 2014, 18, 153-161.	7.8	196
10	Phenotypic plasticity as a state-dependent life-history decision. Evolutionary Ecology, 1992, 6, 243-253.	1.2	185
11	Optimal annual routines: behaviour in the context of physiology and ecology. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 301-319.	4.0	170
12	The Evolution of Transgenerational Integration of Information in Heterogeneous Environments. American Naturalist, 2015, 185, E55-E69.	2.1	170
13	Variation in behaviour promotes cooperation in the Prisoner's Dilemma game. Nature, 2004, 428, 745-748.	27.8	159
14	Evolution of trust and trustworthiness: social awareness favours personality differences. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 605-613.	2.6	128
15	A Dynamic Game-theoretic Model of Parental Care. Journal of Theoretical Biology, 2000, 205, 605-623.	1.7	125
16	Deterioration, death and the evolution of reproductive restraint in late life. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 4061-4066.	2.6	125
17	Cues and the optimal timing of activities under environmental changes. Ecology Letters, 2011, 14, 1183-1190.	6.4	125
18	Risk-Prone Behaviour Under Rules Which Have Evolved in a Changing Environment. American Zoologist, 1996, 36, 484-495.	0.7	121

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19	Variation and the response to variation as a basis for successful cooperation. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 2627-2633.	4.0	121
20	Detection vs. selection: integration of genetic, epigenetic and environmental cues in fluctuating environments. Ecology Letters, 2016, 19, 1267-1276.	6.4	117
21	Genes as cues: phenotypic integration of genetic and epigenetic information from a Darwinian perspective. Trends in Ecology and Evolution, 2015, 30, 327-333.	8.7	102
22	Do we expect natural selection to produce rational behaviour?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2007, 362, 1531-1543.	4.0	92
23	Towards a richer evolutionary game theory. Journal of the Royal Society Interface, 2013, 10, 20130544.	3.4	88
24	John Maynard Smith and the importance of consistency in evolutionary game theory. Biology and Philosophy, 2006, 20, 933-950.	1.4	87
25	An Adaptive Response to Uncertainty Generates Positive and Negative Contrast Effects. Science, 2013, 340, 1084-1086.	12.6	83
26	Ideal free distributions under predation risk. Behavioral Ecology and Sociobiology, 1996, 38, 131-143.	1.4	79
27	A Theoretical Investigation of the Effect of Latitude on Avian Life Histories. American Naturalist, 2008, 172, 331-345.	2.1	79
28	State-dependent life-history theory and its implications for optimal clutch size. Evolutionary Ecology, 1992, 6, 170-185.	1.2	76
29	On evolutionary explanations of cognitive biases. Trends in Ecology and Evolution, 2013, 28, 469-473.	8.7	72
30	Imperfectly optimal animals. Behavioral Ecology and Sociobiology, 1984, 15, 61-64.	1.4	70
31	A General Technique for Computing Evolutionarily Stable Strategies Based on Errors in Decision-making. Journal of Theoretical Biology, 1997, 189, 211-225.	1.7	68
32	Towards an Evolutionary Theory of Stress Responses. Trends in Ecology and Evolution, 2021, 36, 39-48.	8.7	58
33	Game Theory in Biology. , 2020, , .		54
34	A theoretical investigation of the effect of predators on foraging behaviour and energy reserves. Proceedings of the Royal Society B: Biological Sciences, 2005, 272, 929-934.	2.6	48
35	On the Evolution and Optimality of Mood States. Behavioral Sciences (Basel, Switzerland), 2013, 3, 501-521.	2.1	46
36	Credible threats and promises. Philosophical Transactions of the Royal Society B: Biological Sciences, 2002, 357, 1607-1616.	4.0	40

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37	The starvationâ€“predation trade-off shapes the strategic use of protein for energy during fasting. Journal of Theoretical Biology, 2014, 359, 208-219.	1.7	39
38	Evolutionarily stable strategies in the repeated hawkâ€“dove game. Behavioral Ecology, 1991, 2, 219-227.	2.2	37
39	The evolution of unconditional strategies via the â€˜multiplier effectâ€™. Ecology Letters, 2011, 14, 237-243.	6.4	36
40	An ESS model for divorce strategies in birds. Philosophical Transactions of the Royal Society B: Biological Sciences, 1999, 354, 223-236.	4.0	33
41	Environmental variability can select for optimism or pessimism. Ecology Letters, 2011, 14, 58-62.	6.4	32
42	Reputation can enhance or suppress cooperation through positive feedback. Nature Communications, 2015, 6, 6134.	12.8	32
43	Sexual conflict over parental care promotes the evolution of sex differences in care and the ability to care. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20142752.	2.6	31
44	Fatness and fitness: exposing the logic of evolutionary explanations for obesity. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20152443.	2.6	31
45	The effects of background mortality on optimal reproduction in a seasonal environment. Theoretical Population Biology, 2004, 65, 361-372.	1.1	28
46	Phenotypic plasticity in fluctuating environments: consequences of the lack of individual optimization. Behavioral Ecology, 1998, 9, 642-648.	2.2	27
47	The erroneous signals of detection theory. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20171852.	2.6	27
48	If animals know their own fighting ability, the evolutionarily stable level of fighting is reduced. Journal of Theoretical Biology, 2005, 232, 1-6.	1.7	24
49	Female choice of matings to maximise parental care.. Proceedings of the Royal Society B: Biological Sciences, 1997, 264, 173-179.	2.6	23
50	Echoes of Early Life: Recent Insights From Mathematical Modeling. Child Development, 2018, 89, 1504-1518.	3.0	23
51	Measurement error and estimates of population extinction risk. Ecology Letters, 2004, 7, 16-20.	6.4	22
52	Adaptive learning can result in a failure to profit from good conditions: implications for understanding depression. Evolution, Medicine and Public Health, 2015, 2015, 123-135.	2.5	22
53	Environmental variability, reliability of information and the timing of migration. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20200622.	2.6	22
54	The optimal coyness game. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 953-960.	2.6	21

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55	Should females prefer to mate with low-quality males?. Journal of Theoretical Biology, 2008, 254, 561-567.	1.7	20
56	Timing of avian reproduction in unpredictable environments. Evolutionary Ecology, 2012, 26, 25-42.	1.2	20
57	Risk attitudes in a changing environment: An evolutionary model of the fourfold pattern of risk preferences.. Psychological Review, 2015, 122, 364-375.	3.8	20
58	Is optimism optimal? Functional causes of apparent behavioural biases. Behavioural Processes, 2012, 89, 172-178.	1.1	18
59	Trust your gut: using physiological states as a source of information is almost as effective as optimal Bayesian learning. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20172411.	2.6	18
60	Cross inhibition improves activity selection when switching incurs time costs. Environmental Epigenetics, 2015, 61, 242-250.	1.8	17
61	Patch choice and population size. Evolutionary Ecology, 1997, 11, 703-722.	1.2	16
62	Gradients of season length and mortality risk cause shifts in body size, reserves and reproductive strategies of determinate growers. Functional Ecology, 2018, 32, 2395-2406.	3.6	13
63	Learning leads to bounded rationality and the evolution of cognitive bias in public goods games. Scientific Reports, 2019, 9, 16319.	3.3	13
64	Matching Behaviours and Rewards. Trends in Cognitive Sciences, 2021, 25, 403-415.	7.8	13
65	Quantifying male attractiveness. Proceedings of the Royal Society B: Biological Sciences, 2003, 270, 1925-1932.	2.6	12
66	Cooperation should not be assumed. Trends in Ecology and Evolution, 2006, 21, 476-478.	8.7	12
67	Sequential choices using signal detection theory can reverse classical predictions. Behavioral Ecology, 2019, 30, 16-19.	2.2	11
68	Costs of Foraging Predispose Animals to Obesity-Related Mortality when Food Is Constantly Abundant. PLoS ONE, 2015, 10, e0141811.	2.5	11
69	The state of Darwinian theory. Behavioral Ecology and Sociobiology, 2011, 65, 417-420.	1.4	10
70	Effects of parental survival on clutch size decisions in fluctuating environments. Evolutionary Ecology, 1998, 12, 459-475.	1.2	9
71	It is optimal to be optimistic about survival. Biology Letters, 2012, 8, 516-519.	2.3	9
72	Genes as Cues of Relatedness and Social Evolution in Heterogeneous Environments. PLoS Computational Biology, 2016, 12, e1005006.	3.2	9

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73	An evolutionary perspective on stress responses, damage and repair. Hormones and Behavior, 2022, 142, 105180.	2.1	9
74	Ecological Genetic Conflict: Genetic Architecture Can Shift the Balance between Local Adaptation and Plasticity. American Naturalist, 2019, 193, 70-80.	2.1	8
75	Learning, exploitation and bias in games. PLoS ONE, 2021, 16, e0246588.	2.5	6
76	Game Theory in Biology: Moving beyond Functional Accounts. American Naturalist, 2022, 199, 179-193.	2.1	6
77	Behavioural flexibility and reputation formation. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20201758.	2.6	5
78	The evolution of social learning as phenotypic cue integration. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200048.	4.0	3
79	A critical analysis of the titration procedure introduced by Abrahams and Dill (1989). Behavioral Ecology and Sociobiology, 1998, 44, 143-146.	1.4	2
80	Introduction. Adaptation to the annual cycle. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 209-210.	4.0	2
81	Optimal gut size of small birds and its dependence on environmental and physiological parameters. Journal of Theoretical Biology, 2018, 454, 357-366.	1.7	2
82	There's no such thing as a free lunch. Behavioral and Brain Sciences, 1988, 11, 154-163.	0.7	1
83	In delay there lies no plenty. Behavioral and Brain Sciences, 1988, 11, 686-687.	0.7	1
84	Towards a behavioural ecology of obesity. Behavioral and Brain Sciences, 2017, 40, e118.	0.7	1
85	The next state of the art. Behavioral and Brain Sciences, 1991, 14, 100-100.	0.7	0
86	Adaptive accounts of physiology and emotion. Behavioral and Brain Sciences, 2000, 23, 201-202.	0.7	0